SUMMARY OF SAFETY AND EFFECTIVENESS

K964820 FEB 28 1997

1. Device Name:

Magnetic Resonance Imaging Accessory

2. Proprietary Name:

Maxim 7000 Quadrature Extremity Coil

3. Classification:

Class II

4. Establishment Registration #:

1529041

5. Manufacture Facility Location:

USA Instruments, Inc., 675-B Alpha Drive,

Highland Heights, Ohio 44143, USA

Telephone: 216-442-5920; Fax: 216-442-5919.

6. Performance Standard:

No applicable performance standards have been issued

under Section 514 of the Food, Drug and Cosmetic Act.

7. Intended Use:

The Quadrature Extremity Coil is a receive-only

quadrature RF coil, used for obtaining diagnostic images of the elbow anatomy in Magnetic Resonance Imaging systems. The indications for use are the same as for standard MR Imaging. The Quadrature Extremity Coil is designed for use with GE Signa (1.5 Tesla) MRI scanner

manufactured by GE Medical Systems.

8. Device Description:

The Quadrature Extremity Coil consists of two

volume RF coil elements in a quadrature design. The

elements and circuitry are enclosed in a durable covering made of vinyl naughahyde which is fire rated.

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9. Safety and Effectiveness

Parameter	Quadrature Elbow Coil	Predicate
Intended Use	Elbow Imaging Applications	General Purpose Flex Coil (K944469) marketed by Picker International
Indications for Use	Identical to routine MRI imaging	General Purpose Flex Coil (K944469) marketed by Picker International
Coil Enclosure Material	Vinyl Fabric	Flexible Spine Coil (K960497) marketed by Picker International
Coil Design	Quadrature design	Profile 7000 C-spine Coil (K943440) marketed by US Asia Instruments. Inc.
Decoupling	Switching Diode decoupling	Profile 7000 C-spine Coil (K943440) marketed by US Asia Instruments. Inc.
Prevention of RF Burns	Does not transmit RF Power Decoupling isolates the coil elements from RF during RF transmission	Profile 7000 C-spine Coil (K943440) marketed by US Asia Instruments. Inc.
	Coil elements and circuitry is enclosed in a non-conductive material.	
Radio Frequency Absorption	Coil is a receive only coil and does not transmit RF	Profile 7000 C-spine Coil (K943440) marketed by US Asia Instruments. Inc.
Formation of Resonant Loop	Decoupling isolates the coil elements from RF during RF transmission	Profile 7000 C-spine Coil (K943440) marketed by US Asia Instruments. Inc.
	Length of cable and stiffness does not permit looping	